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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/765,263	01/18/2001	William H. Zebuhr	105019-0007	6146
24267 7590 04/10/2002 CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE BOSTON, MA 02210			EXAMINER	
			MANOHARAN, VIRGINIA	
BOSTON, MA	02210		ART UNIT	PAPER NUMBER
			1764	
			DATE MAILED: 04/10/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent as	nd Trad	lemark	Office
PTO-326 (	(Rev.	04-0	1)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.

Notice of Informal Patent Application (PTO-152)

Application/Control Number: 09/765,263

Art Unit: 1711

Applicant's election with traverse of Group I, claims 1-29 in Paper No. 6 are acknowledged. The traversal is on the ground(s) that "to the extent that the method defined by claim 3 (sic) can be practiced in a single – effect system... it can be practiced by the evaporation – and– condenser unit that claim 1 defines. Claim 30's paragraph A defines providing a heat exchanger that claim 1's paragraph A defines. Claim 1's evaporation – chamber irrigation system is for performing the type of irrigation that claim 30's paragraph B performs and claim 1's paragraph C defines a vapor guide that directs vapor in the manner that claim 30's paragraph C defines...".

This is not found persuasive because while the irrigation system of claim 1 is for performing the method defines in claim 30, as argued, however, as previously indicated in the restriction requirement, there are other apparatus that can perform the method of claim 30. Furthermore, the search and examination of the entire application present also undue burden. The claimed "irrigation rate" for example are taken into consideration in claim 30 method claim but has no patentable significance in the apparatus of claim 1. Other classification areas e.g. class 137 is a mandatory search for Group II invention but is not required to be searched for Group I invention. Moreover, the vapor guide in claim 1 can direct the vapor into e.g., a demister and not necessarily into the condenser as defined in claim 30.

The requirement is still deemed proper and is therefore made FINAL.

Applicant should update the related application indicated at page 1, i.e., giving its application number or patent number, filing date and other relevant informations.

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Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a. The inconsistent used of terminology in the claims improper. For example.
  - "at least one condensation chamber" recited in lines 2-3 of claim 1,
    as opposed to condensation chamber" recited in line 4, of claim 1;
  - 2. "at least one evaporation chamber" in lines 3-4, as opposed to "said evaporation chamber in line 7. The phrase at least one –should be inserted throughout the claims.
- b. The recitation in claim 1 A of "heat passes from the condensation chamber to the heat exchanger ..."(underlining supplied) provides for ambiguity.

It would presuppose from the initial recitation of claim 1 that the heat exchanger includes the evaporation and the condensation chamber.

c. In claim 6, B), "a plurality of said evaporation chambers" should be – the plurality of said evaporation chambers-- as said plurality is already initially recited in claim 6, A).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-5, 10-12, 17-20 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anyone of GB '085, Hickman, Shafronovsky et al. or Ramshaw et al.

GB '085 discloses a process for distilling a liquid, an evaporator-and-condenser unit comprising:

A heat exchanger that includes heat-transfer surfaces, forming at least one condensation surface (370) and at least one evaporation surface (390), by which heat passes from the at least one heat one condensation chamber to the heat exchanger; a nozzle (388), corresponding to the claimed irrigation system; and a vapor guide (392) defining a vapor path along which it directs to the at least one condensation chamber vapor thereby produced in the at least one evaporation chamber as broadly claimed in claim 1. See e.g., the claims at pages 6-8. Anyone of Hickman, Shafronovsky et al or Ramshaw et al discloses basically similar structural elements as above. See the claims of the above references.

The apparatus of anyone of the above references differs from the claimed invention in that claim 1, for example, recites the limitation that the "irrigation system whose rate of irrigation of each said evaporation system has respective average irrigation rate and repeatedly reaches a respective peak irrigation rate that is a least twice, the average irrigation rate thereof".

However, said limitation, is deemed not to constitute a patentable distinction because it is more directed to "process" rather than to apparatus to which the claims are directed. A process limitation is not the basis for patentability of an apparatus claim.

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Claims 2, 4, 17-18 are not directed to any elements of an apparatus, and accordingly cannot be distinguished from the prior art in the structural sense.

Claims 6-9, 13-16, 21-23 and 26-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to V. Manoharan whose telephone number is (703) 308-3844. The examiner can normally be reached on Tuesday-Friday from 7:30 a.m. to 6 p.m. and on alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Marian Knode can be reached on (703) 308-4311. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

V. Manoharan/dh April 9, 2002 VIRGINIA MANOHAMAN PRIMARY EXAMINER ART UNIT 138 (724 4/9 (0)